2016 CIS EIS Outreach
Public Meetings
Information Station Posters
Welcome to the Missile Defense Agency (MDA) Public Meeting

We invite the community to learn more about the potential Continental United States Interceptor Site (CIS) and the Environmental Impact Statement.

- Review project and potential actions
- Ask questions and interact with subject-matter experts
- Provide valuable input
- Submit written comments or provide oral comments to a court recorder at the public meeting
- For more information visit www.mda.mil

Written comments may be submitted to:
Email: MDA.CIS.EIS@BV.COM
Mail: Black & Veatch Special Projects Corp
ATTN: MDA CIS EIS
6800 W. 115th Street, Suite 2200
Overland Park, KS 66211-2420

All comments must be postmarked by July 18, 2016. Personal information will be kept confidential unless release is required by law.
Cooperating Agencies

Fort Drum
Fort Drum, NY

Fort Custer Training Center
Michigan Army National Guard
Augusta, MI

Camp Ravenna Joint Military Training Center
Ohio Army National Guard
Portage and Trumbull Counties, OH

Center for Security Forces Detachment
Kittery Survival, Evasion, Resistance,
and Escape Facility (SERE East)
Redington Township, ME
Thank You for Attending the MDA Public Meeting

Your participation is vital to our success

More information can be found at:

www.mda.mil

Have more to say…?

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About Ground Based Interceptor (GBI)

Ground Based Interceptor

- 55 feet long, 4.2 feet in diameter, 22-27 tons
- Solid propellant
- No warhead (hit-to-kill)
Locations Analyzed in Draft Environmental Impact Statement (EIS)*

- **Fort Custer Training Center**  
  Michigan Army National Guard  
  Augusta, Michigan

- **Camp Ravenna Joint Military Training Center**  
  Ohio Army National Guard  
  Portage and Trumbull Counties, Ohio

- **Fort Drum**  
  Fort Drum, New York

*No preferred site has been selected*
In January 2016, the Missile Defense Agency designated the Center for Security Forces Detachment Kittery Survival, Evasion, Resistance, and Escape Facility (SERE East) in Redington Township, Maine as an Alternative Considered but Not Carried Forward due to irreversible environmental impacts, significant constructability concerns, and extensive costs associated with developing infrastructure in a remote area.

A press release regarding this designation was issued January 16, 2016.
Why is MDA Preparing an Environmental Impact Statement (EIS)?

FY13 National Defense Authorization Act Section 227

(a) EVALUATION —Not later than December 31, 2013, the Secretary of Defense shall conduct a study to evaluate at least three possible additional locations in the United States, selected by the Director of the Missile Defense Agency, that would be best suited for future deployment of an interceptor capable of protecting the homeland against threats from nations such as North Korea and Iran. At least two of such locations shall be on the East Coast of the United States.

(b) ENVIRONMENTAL IMPACT STATEMENT REQUIRED —Except as provided by subsection (c), the Secretary shall prepare an environmental impact statement in accordance with the National Environmental Policy Act of 1969 (42 U.S.C. et seq.) for the locations the Secretary evaluates under subsection (a).

Pursuant to Congressional direction to evaluate possible locations and complete an Environmental Impact Statement for a potential additional missile defense site in the continental United States, the Missile Defense Agency completed an evaluation of 457 sites. The EIS analyzes three potential locations.

The Department of Defense has not made a decision to deploy or construct a CIS.
Environmental Impact Statement Steps

The National Environmental Policy Act requires Federal agencies to consider environmental impacts of proposed actions and provide the public opportunities to comment.

MDA has:
- Gathered information about current environmental quality;
- Conducted studies, surveys, and research to analyze impacts of the potential project to the environment; and
- Prepared a Draft Environmental Impact Statement, detailing the potential impact of potential construction and operations.

ACRONYM KEY
DEIS: Draft Environmental Impact Statement
DOPAA: Description of Proposed Action and Alternatives
FEIS: Final Environmental Impact Statement
FR: Federal Register
NOA: Notice of Availability
NOI: Notice of Intent
ROD: Record of Decision

Approved for Public Release - 16-MDA-8688 (25 May 16)
Camp Ravenna Joint
Military Training Center
*Out of Scope refers to comments received during the public scoping process that were not considered in the Environmental Impact Statement because they are outside the National Environmental Policy Act (NEPA) process.

Examples of these comments include:
- Impacts of interceptor launch
- System performance
- Fiscal responsibility
Fort Drum Training Range
Fort Drum Public Scoping Comments

Purpose and Need 9%

Socioeconomics 41%

Transportation 13%

Land Use 3%

*Out of Scope 34%

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- Impacts of interceptor launch
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- Fiscal responsibility
Fort Custer Training Center
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Examples of these comments include:
• Impacts of interceptor launch
• System performance
• Fiscal responsibility
FY16 National Defense Authorization Act

Congress included a requirement to develop a plan to expedite the potential deployment of a CIS by at least 2 years; therefore, two construction schedules were evaluated in the Environmental Impact Statement (EIS):

- Baseline Schedule – 5 years
- Expedited Schedule – 3 years

Additional and/or intensified impacts from an expedited schedule may occur to: biological resources, noise, transportation, and visual resources.
### Potential Environmental Impacts from CIS Construction

<table>
<thead>
<tr>
<th>Resource Studied</th>
<th>Fort Custer 1</th>
<th>Fort Custer 2</th>
<th>Camp Ravenna</th>
<th>Fort Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Quality</strong></td>
<td>Minor</td>
<td>Minor</td>
<td>Minor</td>
<td>Minor</td>
</tr>
<tr>
<td><strong>Airspace</strong></td>
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<tr>
<td><strong>Biological Resources</strong></td>
<td></td>
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</tr>
<tr>
<td>- Baseline Schedule</td>
<td>Minor</td>
<td>Minor</td>
<td>Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>- Expedited Schedule</td>
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<td>Major (Significant)</td>
<td>Major (Significant)</td>
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<tr>
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<td>Adverse (Moderate/Major)</td>
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<tr>
<td><strong>Environmental Justice</strong></td>
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<td><strong>Geology &amp; Soils</strong></td>
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<td></td>
<td></td>
</tr>
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<td>- Baseline Schedule</td>
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<td>Minor</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>- Expedited Schedule</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Moderate</td>
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<tr>
<td><strong>Hazardous Materials/ Hazardous Waste</strong></td>
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<td>Moderate</td>
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<td>Minor</td>
<td>Minor</td>
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<tr>
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<tr>
<td><strong>Noise</strong></td>
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</table>
Camp Ravenna Joint
Military Training Center
Camp Ravenna Potential CIS Footprint

Legend
- CIS Footprint
- Keep Out Area (Uncleared Safety Buffer)
- Camp Ravenna Installation Boundary

CIS Footprint with Keep Out Area: 1070 Acres
Total Acreage to be Cleared: 941 Acres

Notional CIS Footprint
Camp Ravenna Joint Military Training Center, OH

Sources: World Street Map via Geo. Serv. MDA
Fort Drum Training Range
Fort Custer Training Center
Fort Custer Potential CIS Footprint

Site 1
CIS Footprint with Keep Out Area: 1,008 Acres
Total Acreage to be Cleared: 805 Acres

Site 2
CIS Footprint with Keep Out Area: 1,040 Acres
Total Acreage to be Cleared: 830 Acres

Legend
- CIS Footprint
- Keep Out Area (Uncleared Safety Buffer)
- FCTC Installation Boundary

Approved for Public Release - 16-MDA-8688 (25 May 16)

http://www.mda.mil/
Camp Ravenna Joint Military Training Center
Impact on Biological Resources

- 1,070 acre CIS footprint, 941 acres of clearing and grading
- Habitat loss/conversion in adjacent areas
- Displacement of wildlife and interruption of movement
- Disturbance from night time lighting and noise

Impact on Threatened/Endangered Species

- Loss of roosting trees and foraging habitat (391 acres of forest) – northern long-eared bat
- Loss of suitable habitat - Indiana bat, northern long-eared bat, Mitchell’s satyr butterfly, eastern massasauga rattlesnake, and monkshood
- Baseline Construction Schedule (5 yr) – minor impact if all U.S. Fish & Wildlife Service guidelines followed
- Expedited Schedule (3 yr) – major (significant) impact; clearing habitat during roosting season (Apr – Sep), noise, and lighting

Mitigation Options

- Tree clearing – October through April
- Minimize night work
Impact on Resource

- Permanent direct impact: 20 acres
- Permanent indirect impact: Approx. 1 acre
- Potential temporary indirect impact

Mitigation Options

- In-Lieu Fee Program
- Wetland Mitigation Site Development (wetland creation, restoration, enhancement, preservation)
- Work with U.S. Army Corps of Engineers and Ohio Environmental Protection Agency for appropriate permits and mitigation
Camp Ravenna Water Resources

Significant impact to approximately 5.2 miles of unnamed streams from CIS construction

Impact on Resource

• Fill, relocation and/or underground enclosure during site preparation
• Flows artificially diverted and reduced
• Adverse impact on aquatic flora and fauna
• Permanent/temporary indirect impacts to downstream areas

Mitigation Options

• Stream mitigation: restoration or re-routing
• Stream enhancement within same watershed
Fort Drum Training Range
Impact on Biological Resources

- 1,219 acre CIS footprint; 996 acres of clearing and grading
- Habitat loss/conversion in adjacent areas
- Displacement of wildlife and interruption of movement
- Disturbance from night time lighting and noise

Impact on Threatened/Endangered Species

- Loss of roosting trees and foraging habitat (671 acres of forest) for northern long-eared bat and Indiana bat
- Baseline Construction Schedule (5 yr) – minor impact, if all U.S. Fish & Wildlife Service guidelines followed
- Expedited Schedule (3 yr) – major (significant) impact; clearing habitat during roosting season (Apr – Sep), noise, and lighting

Mitigation Options

- Tree clearing – October through April
- Minimize night work

Northern long-eared bat known to be present within vicinity of the CIS footprint

Indiana bat known to roost within FTD, but not in CIS footprint
Impact on Resource

- Permanent direct impact: 26 acres
- Permanent indirect impact: 60 acres
- Potential temporary indirect impact

Mitigation Options

- In-Lieu Fee Program
- Wetland Mitigation Site Development (wetland creation, restoration, enhancement, preservation)
- Work with U.S. Army Corps of Engineers for appropriate permits and mitigation

<table>
<thead>
<tr>
<th>Habitat Type</th>
<th>Approx. Permanent Direct Impact</th>
<th>Approx. Permanent Indirect Impact</th>
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</thead>
<tbody>
<tr>
<td>Forested</td>
<td>11 acres</td>
<td>12 acres</td>
</tr>
<tr>
<td>Scrub-Shrub</td>
<td>7 acres</td>
<td>34 acres</td>
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<tr>
<td>Emergent</td>
<td>0.3 acres</td>
<td>6 acres</td>
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<tr>
<td>Shallow Water</td>
<td>0.7 acres</td>
<td>2 acres</td>
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<tr>
<td>Riverine</td>
<td>7 acres</td>
<td>6 acres</td>
</tr>
<tr>
<td>Total</td>
<td>26 acres</td>
<td>60 acres</td>
</tr>
</tbody>
</table>
Fort Drum Water Resources

Significant impact to approximately 6 miles of named and unnamed streams from CIS construction
(West Branch Black Creek and tributaries)

Impact on Resource
- Fill, relocation and/or underground enclosure during site preparation
- Flows artificially diverted and reduced
- Adverse impact on aquatic flora and fauna
- Permanent/temporary indirect impacts to downstream areas

Mitigation Options
- Stream mitigation (restoration or enhancement of streams within same watershed)
- In-lieu fee program
Fort Custer Training Center
Impact on Biological Resources

- **Site 1**: 1,008 acre CIS footprint; 805 acres of clearing and grading (575 acres of forest)
- **Site 2**: 1,040 acre CIS footprint; 830 acres of clearing and grading (830 acres of forest)
- Habitat loss/conversion in adjacent areas
- Displacement of wildlife and interruption of movement
- Disturbance from night time lighting and noise

Impact on Threatened/Endangered Species

- Loss of suitable habitat - Indiana and Northern long-eared bats, Mitchell’s satyr butterfly, copper belly watersnake, and the eastern massasauga rattlesnake
- Baseline Construction Schedule (5 yr) – minor impact, if all U.S. Fish & Wildlife Service guidelines followed
- Expedited Schedule (3 yr) – moderate impact; clearing habitat during roosting season (Apr – Sep), noise, and lighting

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**No threatened or endangered species currently present at Fort Custer**

Suitable habitat for several species potentially present within the vicinity of the CIS footprint
Impact on Resource

- Permanent direct impact:
  - **Site 1** – 20 acres
  - **Site 2** – 78 acres

- Permanent indirect impact:
  - **Site 1** – Reduction in groundwater hydrology (amount and flow) in Whittman Lake Fen wetlands
  - **Site 2** – Increased erosion and sedimentation due to surface water flow

Mitigation Options

- In-Lieu Fee Program
- Wetland Mitigation Site Development
- Mitigation banking credit purchase
- Will work with U.S. Army Corps of Engineers and Michigan EPA for appropriate permits and mitigation

### Habitat Type Impact

<table>
<thead>
<tr>
<th>Site 1</th>
<th>Site 2</th>
</tr>
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<tr>
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<td>Approx. Permanent Direct Impact</td>
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<tr>
<td>Scrub-Shrub</td>
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<tr>
<td>Emergent</td>
<td>4 acres</td>
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<tr>
<td>Shallow Water</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>20 acres</strong></td>
</tr>
</tbody>
</table>
Potential Impacts

- General construction site hazards
- Transport of Ground Based Interceptor

Mitigation Options

- Ordnance awareness training
- Protective boundary around CIS footprint
- Transport of all site components in coordination with Departments of Transportation
- Increase emergency services
- Establish keep out areas

Key Safety Features

- No flight testing would take place at the CIS
- Solid propellant boosters
- No nuclear warhead used
- Fully contained within silo
- Safety systems to prevent accidental launch
Camp Ravenna Hazardous Materials & Waste

19 Areas of Concern/Munitions Response Sites and 2 facility-wide Areas of Concern for groundwater and sewers exist onsite from past operations.

Existing Installation Restoration Program (IRP) in conjunction with U.S. Army Corps of Engineers and Ohio Environmental Protection Agency

Prior to construction, Ohio Army National Guard (OHARNG) would complete soil remediation. If encountered during construction, contaminated groundwater would be characterized, treated and/or disposed of.

Impact on Resource

Construction & Operation

Potential for accidental release of hazardous materials, including fuel and explosive components

Mitigation Options

Construction & Operation

- Use of standard best management practices (e.g., Hazard Communication Programs)
- No mitigation measures proposed
Fort Drum Training Range
Impact on Resource

- **NY 3A would be closed**
  - Traffic would be rerouted along NY 3 through Carthage
  - Existing routes could accommodate increased traffic, heavy traffic expected during peak hours
  - Travel times would be increased
  - Travel delay expected in Carthage during peak hours

Mitigation Options

- Signal modifications (phasing/timing) could be implemented to enhance traffic flow at State Street and N. School Street in Carthage
- Additional turn lane could be added to lessen potential peak hour traffic delays in Carthage
Camp Ravenna Joint Military Training Center
Camp Ravenna Socioeconomics

Construction
- 400 – 600 workers onsite for up to 5 years
- Approximately $900K/year in potential sale tax revenue in Portage and Trumbull Counties (combined)
- Total value added in region: >$224M/yr
- Indirect jobs created: Approx. 2,351

Operation
- 650 – 850 workers onsite full-time
- Approximately $1.35M/year sales tax revenue in Portage and Trumbull Counties (combined)
- Total value added in region: >$27M/year
- Indirect jobs created: Approx. 340

Impacts are largely positive
No mitigation proposed

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Fort Drum Training Range
**Fort Drum Socioeconomics**

**Construction**
- 400 – 600 workers onsite for up to 5 years
- Approximately $1.1M/year in potential sales tax revenue
- Total value added in region: >$190M/year
- Indirect jobs created: Approx. 1,836

**Operation**
- 650 – 850 workers onsite full time
- Approximately $1.65M/year sales tax revenue
- Total value added in region: >$27M/year
- Indirect jobs created: Approx. 340

*Impacts are largely positive*

*No mitigation proposed*
Prehistoric and historic archaeological sites have been identified within the CIS footprint. Some eligible for listing the National Register of Historic Places; others would require further investigations to determine eligibility.

**Impact on Resource**

Archaeological sites would be permanently altered or destroyed having the potential to adversely affect cultural resources under Section 106 of the National Historic Preservation Act.

**Mitigation Options**

Data recovery, monitoring, educational outreach required in partnership with New York State Historic Preservation Office and Tribes.
Fort Custer Training Center
Fort Custer Socioeconomics

Construction (Sites 1 and 2)
- 400 – 600 workers onsite for up to 5 years
- Approximately $925K/year in potential sales tax revenue in Kalamazoo and Calhoun Counties (combined)
- Total value added in region: >$193M/yr
- Indirect jobs created: Approx. 2,008

Operation (Sites 1 and 2)
- 650 – 850 workers onsite full-time
- Approximately $1.4M/year sales tax revenue in Kalamazoo and Calhoun Counties (combined)
- Total value added in region: >$29M/year
- Indirect jobs created: Approx. 416

Impacts are largely positive for both sites
No mitigation proposed